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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/782,982	02/20/2004	Rafail Zubok	532/5	7133	
530 LERNER, DAV	7590 09/24/2007 VID, LITTENBERG,		EXAMINER		
KRUMHOLZ & MENTLIK			MILLER, CHERYL L		
600 SOUTH AVENUE WEST WESTFIELD, NJ 07090			ART UNIT	PAPER NUMBER	
			3738		
			<u></u>		
			MAIL DATE	DELIVERY MODE	
			09/24/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
Office Anti-en Occurrence	10/782,982	ZUBOK ET AL.	
Office Action Summary	Examiner	Art Unit	
	Cheryl Miller	3738	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING [- Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 136(a). In no event, however, may a d will apply and will expire SIX (6) MO ate, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 05.	September 2007.		
2a)⊠ This action is FINAL . 2b)□ Th	is action is non-final.		
3) Since this application is in condition for allow	ance except for formal mat	ters, prosecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.	
Disposition of Claims		•	
4) Claim(s) <u>1-6,8-13 and 15-22</u> is/are pending in	n the application.		
4a) Of the above claim(s) is/are withdr	awn from consideration.		
5)⊠ Claim(s) <u>15-22</u> is/are allowed.	·		
6)⊠ Claim(s) <u>1-6 and 8-13</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	or election requirement.		
Application Papers			
9) The specification is objected to by the Examir	ner.		
10)☐ The drawing(s) filed on is/are: a)☐ ac	ccepted or b) Dobjected to	by the Examiner.	
Applicant may not request that any objection to th	e drawing(s) be held in abeya	ince. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corre	·		
11)☐ The oath or declaration is objected to by the €	Examiner. Note the attache	ed Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreig	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
1 Certified copies of the priority docume	nts have been received.		
2. Certified copies of the priority docume	nts have been received in	Application No	
3. Copies of the certified copies of the pri	iority documents have bee	n received in this National Stage	
application from the International Bure	, , , , , , , , , , , , , , , , , , , ,	·	
* See the attached detailed Office action for a list	st of the certified copies no	t received.	
Attachment(s)			,
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 		(s)/Mail Date ¶nformal Patent Application _	
Paper No(s)/Mail Date		Hachments 1-3	

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Application/Control Number: 10/782,982

Art Unit: 3738

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-6, 8-13 and 15-22 have been considered but are most in view of the new ground(s) of rejection.

The prior art applied in the previous rejection have been maintained and marked up attachments have been attached hereto to more clearly illustrate the examiner's interpretation of the references.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3, 5, 6, 8-10, 12, and 13 are rejected under 35 U.S.C. 102(e) as being anticipated by Songer et al. (US 7,001,433 B2, cited previously). See figures 6a-6e, 7a-7b and col.9 line 17-col.10 line 25. Songer discloses an artificial intervertebral disc comprising a first baseplate (82) with aperture (88), a second baseplate (84) with aperture (90), a bearing mechanism (76; details seen in fig.7a, 7b) coupled to the baseplates (82, 84), comprising a semispherical bearing (outer surface of 76), pair of retaining caps (peaks and valleys of 104 and 106) connected by locking posts (108, 110); said bearing (76) including a first bore (concavity of 104) having a first diameter and a second bore (112) having a second smaller diameter, the bores

Application/Control Number: 10/782,982

Art Unit: 3738

aligned; the pair of caps including a first cap (106) having a first post (110) inserted into first bore (concavity of 104), and a second cap (104) inserted into second smaller bore (112) wherein the baseplates rotate relative the bearing mechanism, and wherein the rotation of the baseplates (82, 84) relative the bearing (76) extends the bearing mechanism through the baseplate aperture (at 78 and 80; see fig.6a; the bearing mechanism is partially extending through the aperture during rotation). Songer discloses the baseplates (82, 84) to be outwardly domed (see surfaces 82a and 84a in fig.6B, 6e, and 6f domed is clearly shown). Songer discloses the bearing surfaces of the baseplates to be semispherical (shown as so in fig.6E). See attachment 1.

Claims 1-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Navarro et al. (US 2006/0259149 A1). Navarro discloses an artificial intervertebral disc (fig.15) comprising a first baseplate (200 or 20+200) with aperture (271), a second baseplate (300; or 30+300) with aperture (371), a bearing mechanism (motion limiting members) coupled to the baseplates, comprising a semispherical bearing (ball 91), pair of retaining caps (tops 92) connected by locking posts (80), said bearing including a first bore (opening in cushion 40) having a first diameter and a second bore (271 or bore of 400) having a second smaller diameter, the bores aligned; the pair of caps including a first cap (one top 92 seen in fig.8) having a first post (80) inserted into first bore (opening of 40), and a second cap (bottom 92 of another post) inserted into second smaller bore (opening of 400), wherein the baseplates rotate relative the bearing mechanism (some rotation is allowed, although minimal; P0019; fig.2; P0065), and wherein the rotation of the baseplates relative the bearing extends the bearing mechanism through the baseplate aperture (see figs.9, 16, 18). Navarro discloses the bearing surfaces (272, 372) of the

Art Unit: 3738

baseplates to be semispherical (fig.9). Navarro discloses the apertures (271, 371) of the baseplates (200, 300) to be tapered (P0069) such that an outwardly facing surface has a larger diameter (see fig.9). See attachment 2.

Claims 1-6 and 8-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Biedermann et al. (US 2004/0117021 A1). Biedermann discloses an artificial intervertebral disc (figs.4, 5) comprising a first baseplate (22) with aperture (31', 32'), a second baseplate (21) with aperture (31, 32), a bearing mechanism (23) coupled to the baseplates (see fig.4), comprising a semispherical bearing (outer surface of core 23), pair of retaining caps (heads of screws 34, 34') connected by locking posts (shafts of screws 34, 34' and/or sleeve 33), said bearing including a first bore (30) having a first diameter and a second bore (bore of sleeve 33) having a second smaller diameter, the bores aligned; the pair of caps including a first cap (head of screw 34 or bottom rim of sleeve 33) having a first post (sleeve 33) inserted into first bore (30), and a second cap (head of screw 34') inserted into second smaller bore (bore of sleeve 33), wherein the baseplates rotate relative the bearing mechanism (P0032), and wherein the rotation of the baseplates relative the bearing extends the bearing mechanism through the baseplate aperture (seen in figures as capable of so, caps are located within apertures). Biedermann discloses the baseplates (21, 22) to be outwardly domed (P0029). Biedermann discloses the bearing surfaces of the baseplates to be semispherical (bearing surfaces considered to be inner concave surfaces of baseplates). Biedermann discloses tapered endplates (see fig.4, 5; P0029). See attachment 3.

Allowable Subject Matter

Claims 15-22 are allowed.

Art Unit: 3738

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cheryl Miller whose telephone number is (571) 272-4755. The examiner can normally be reached on Monday-Friday 7:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott can be reached on (571) 272-4755. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 3738

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Cheryl Miller

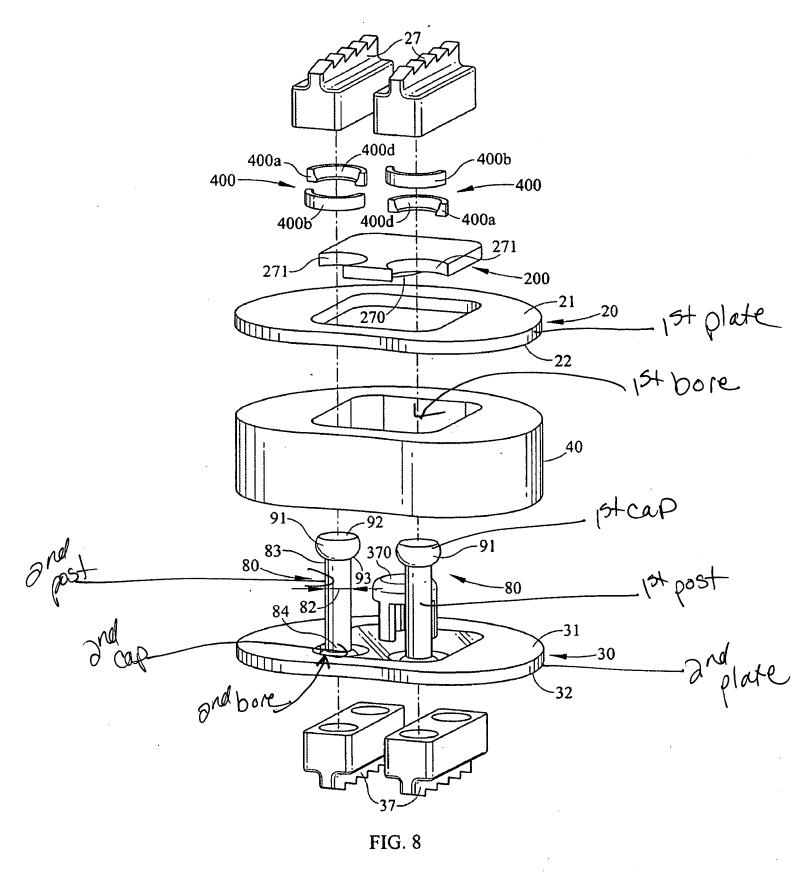
BRUCE SNOW

Hachment # (marked up)
U.S. Patent Feb. 21, 2006 Sheet 12 of 22 US 7,001,433 B2

and cap FIG. 7A 104 108 106 120 116 155 FIG. 7B FIG. 7C

Attachment #2 (mas ked up)

Patent Application Publication Nov. 16, 2006 Sheet 11 of 30 US 2006/0259146 A1



Attachment #3 (marked up)

Patent Application Publication Jun. 17, 2004 Sheet 1 of 3 US 2004/0117021 A1

